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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/715,438	11/16/2000	Mehryar Khailili Garakani	2705-129	5707

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EXAMINER
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LEZAK, ARRIENNE M

ART UNIT	PAPER NUMBER
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2143

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DATE MAILED: 04/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/715,438

Applicant(s)

GARAKANI ET AL.

Examiner

Arrienne M. Lezak

Art Unit

2143

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 November 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>2</u> . | 6) <input type="checkbox"/> Other: ____.  |

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-20 are rejected under 35 U.S.C. 102(e) as being anticipated by US Patent US 6,504,838 B1 to Kwan.

3. Regarding Claims 1, 4, 8, 12, 15 and 19, Kwan discloses a method, apparatus and computer-readable medium for establishing a high-speed modem relay connection over a voice frame network between an originating modem with an associated calling-leg gateway and an answering modem with an associated called-leg gateway, (Col. 87, lines 1-22), the method comprising:

- first detecting a predefined modulated answer tone at a first voice frame network gateway corresponding with the answering modem, (Col. 66, lines 23 –67; Col. 67, lines 1-31; Col. 69, lines, 30-56; and Col. 87, lines 1-22);
- second detecting a predefined digital code at a second voice frame network gateway corresponding with the originating modem, (Col. 66, lines 23 –67; Col. 67, lines 1-31; Col. 69, lines, 30-56; and Col. 87, lines 1-22);

- suppressing signal transmission between the originating modem and the answering modem, (per pending Claim 4), (Col. 67, lines 7-31);
- at the second gateway detecting two additional predefined digital codes from the originating modem and completing local physical layer negotiation, (Col. 66, lines 23 –67; Col. 67, lines 1-31; Col. 69, lines, 30-56; and Col. 87, lines 1-22);
- at the first gateway transmitting at least two additional predefined digital codes to the answering modem and completing local physical layer negotiation, (Col. 66, lines 23 –67; Col. 67, lines 1-31; Col. 69, lines, 30-56; and Col. 87, lines 1-22); and
- enabling signal transmission between the originating modem and the answering modem, (Col. 67, lines 7-31);
- whereby the voice frame network connection is selectively automatically transitioned from voice mode to modem relay mode upon a determination that the originating and the answering modem are both high-speed modems, (Col. 10, lines 4-24; Col. 71, lines 54-67; Col. 72, lines 1-67; Col. 73, lines 1-51; and Col. 67, lines 7-31).

Therefore, this reference may reasonably be read to teach or describe every element or claim limitation of Claims 1, 4, 8, 12, 15 and 19.

4. Regarding Claims 2, 3, 14, 16, 17 and 20, Kwan discloses a method, apparatus and computer-readable medium for establishing a high-speed modem relay connection over a voice frame network wherein an amplitude-modulated answer (ANSam) tone is

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first detected at one of the gateways and a digital call menu (CM) is secondly detected at the other one of the gateways, (per pending Claims 2, 16 and 20), wherein the first gateway to perform said tone-detecting signaling to the other gateway that tone detection has occurred, (per pending Claims 3, 14 and 17), (Col. 69, lines 30-56).

Therefore, this reference may reasonably be read to teach or describe every element or claim limitation of Claims 2, 3, 14, 16, 17 and 20.

5. Regarding Claims 5 and 18, Kwan discloses a method, apparatus and computer-readable medium for establishing a high-speed modem relay connection over a voice frame network wherein negotiating includes: at the calling-leg gateway detecting two additional digital CM codes from the originating modem and completing local calling-leg physical layer negotiation, and at the called-leg gateway transmitting at least two additional digital CM codes to the answering modem and completing local called-leg physical layer negotiation, (Col. 69, lines 30-56 and Col. 72, lines 38-62). Therefore, this reference may reasonably be read to teach or describe every element or claim limitation of Claims 5 and 18.

### ***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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7. Claims 6, 7, 9-11 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over further consideration of US Patent US 6,504,838 B1 to Kwan. Kwan is relied upon for those teachings disclosed herein. As noted above, Kwan discloses a method, apparatus and computer-readable medium for establishing a high-speed modem relay connection over a voice frame network inclusive of voice compression, (Col. 8, lines 18-41), and echo cancellation, (Col. 10, lines 5-67). Kwan does not specifically disclose that after detecting the first tone and before detecting the second tone, enabled voice compression is disabled, (per pending Claims 6, 9, 11 and 13), and enabled echo cancellation is disabled, (per pending Claims 7, 10, 11 and 13), (Col. 8, lines 18-41 and Col. 10, lines 4-67).

8. To incorporate the disablement of voice compression and echo cancellation into Kwan's method, apparatus and computer-readable medium for establishing a high-speed modem relay connection over a voice frame would have been obvious to one of ordinary skill in the art at the time of invention by Applicant. The motivation to combine is noted by Examiner in that a handshake, (as noted within Kwan), is not an analog to digital conversion, thus there is no noise. Without noise, there is no need for voice compression and echo cancellation, which would only serve to drop bits. Moreover, such disablement functionality is applied within Kwan in regards to the data pump as related to the reception/transmission of messages or fax data signals, (Fig. 21 and Col. 55, lines 52-55). Therefore, Claims 6, 7, 9-11 and 13 are unpatentable over further consideration of the teachings of Kwan.

***Conclusion***

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

US Patent 5,751,701 to Langberg.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arrienne M. Lezak whose telephone number is (703)-305-0717. The examiner can normally be reached on M-F 8:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Wiley can be reached on (703)-308-5221. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Arrienne M. Lezak  
Examiner  
Art Unit 2143

AML

  
**DAVID WILEY**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER 2100**